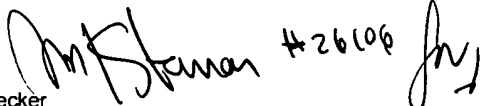


|   |  |   |   |
|---|--|---|---|
| FORM PTO-1590   |  | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE   | ATTORNEY'S DOCKET NUMBER<br>052363-0034   |
| <b>TRANSMITTAL LETTER TO THE UNITED STATES<br/>DESIGNATED/ELECTED OFFICE (DO/EO/US)<br/>CONCERNING A FILING UNDER 35 U.S.C. 371</b> |  |   | U.S. APPLIC. NO. (if known, see 37 CFR 1.51)<br>Not Yet Assigned <b>20/585647</b> |
| INTERNATIONAL APPLICATION NO<br>PCT/JP2005/000146   | INTERNATIONAL FILING DATE<br>January 7, 2005 | PRIORITY DATE CLAIMED<br>January 8, 2004  |   |
| TITLE OF INVENTION<br>CUBIC BORON NITRIDE SINTERED BODY   |  |   |   |
| APPLICANTS FOR DO/EO/US<br>Michiko MATSUKAWA, Satoru KUKINO, Tomohiro FUKAYA  |  |   |   |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:     |  |   |   |
| 1.  | <input checked="" type="checkbox"/>          | This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.   |   |
| 2.  | <input type="checkbox"/>                     | This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.   |   |
| 3.  | <input checked="" type="checkbox"/>          | This express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.   |   |
| 4.  | <input checked="" type="checkbox"/>          | The US has been elected (Article 31).   |   |
| 5.  | <input checked="" type="checkbox"/>          | A copy of the International Application as filed (35 U.S.C. 371(c)(2))<br>a. <input type="checkbox"/> is attached herewith (required only if not transmitted by the International Bureau).<br>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.<br>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US)  |   |
| 6.  | <input checked="" type="checkbox"/>          | An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).  |   |
| 7.  | <input checked="" type="checkbox"/>          | Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))<br>a. <input type="checkbox"/> are attached hereto (required only if not transmitted by the International Bureau).<br>b. <input type="checkbox"/> have been communicated by the International Bureau.<br>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendment has NOT expired.<br>d. <input checked="" type="checkbox"/> have not been made and will not be made. |   |
| 8.  | <input type="checkbox"/>                     | An English translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).  |   |
| 9.  | <input checked="" type="checkbox"/>          | An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).  |   |
| 10.   | <input type="checkbox"/>                     | An English translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).   |   |
| Items 11. to 16. below concern other document(s) or information included:   |  |   |   |
| 11.   | <input checked="" type="checkbox"/>          | An Information Disclosure Statement under 37 CFR 1.97 and 1.98.   |   |
| 12.   | <input checked="" type="checkbox"/>          | An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.   |   |
| 13.   | <input checked="" type="checkbox"/>          | A preliminary amendment.  |   |
| 14.   | <input type="checkbox"/>                     | An Application Data Sheet under 37 CFR 1.76.  |   |
| 15.   | <input type="checkbox"/>                     | A substitute specification.   |   |
| 16.   | <input type="checkbox"/>                     | A power of attorney and/or change of address letter.  |   |
| 17.   | <input type="checkbox"/>                     | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.  |   |
| 18.   | <input type="checkbox"/>                     | A second copy of the published International Application under 35 U.S.C. 154(d)(4).   |   |
| 19.   | <input type="checkbox"/>                     | A second copy of the English translation of the International Application under 35 U.S.C. 154(d)(4).  |   |
| 20.   | <input checked="" type="checkbox"/>          | Other items or information.<br>1) Front Page of the International Application<br>2) PCT/IB/301<br>3) PCT/IB/304<br>4) PCT/IB/308<br>5) International Search Report  |   |

|   |              |   |            |   |              |
|---|--------------|---|------------|---|--------------|
| U.S. APPLIC. NO. (if known, see 37 CFR 1.101/585647<br>Not Yet Assigned   |              | INTERNATIONAL APPLICATION NO.<br>PCT/JP2005/000146                            |            | ATTORNEY'S DOCKET NUMBER<br>052363-0034 |              |
|   |              |   |            | CALCULATIONS                            | PTO USE ONLY |
| 21. <input checked="" type="checkbox"/> The following fees are submitted:   |              |   |            |   |              |
| <input checked="" type="checkbox"/> Basic National Stage Fee \$300  |              |   |            | \$300                                   |              |
| 22. <input checked="" type="checkbox"/> Examination Fee<br>If the written opinion prepared by ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0<br>All other situations \$200   |              |   |            | \$200                                   |              |
| 23. <input checked="" type="checkbox"/> Search Fee (37CFR 1.492(b))<br>If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) \$0<br>Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority \$100<br>International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB \$400<br>All other situations \$500 |              |   |            | \$400                                   |              |
| TOTAL OF 21, 22 and 23 =  |              |   |            | \$900                                   |              |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium).<br>The fee is \$250 for each additional 50 sheets of paper or fraction thereof.   |              |   |            | \$                                      |              |
| Total Sheets  | Extra Sheets | Number of each additional 50 or fraction Thereof (round up to a whole number) | RATE       |   |              |
| -100  | /50=         |   | X\$250     | \$                                      |              |
| Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).  |              |   |            | \$                                      |              |
| CLAIMS  | NUMBER FILED | NUMBER EXTRA  | RATE       |   |              |
| Total Claims  | -20 =        |   | x \$50.00  | \$                                      |              |
| Independent Claims  | -3 =         |   | x \$200.00 | \$                                      |              |
| Multiple dependent claim(s) (if applicable)   |              |   | + \$360.00 | \$360                                   |              |
| TOTAL OF ABOVE CALCULATIONS =   |              |   |            | \$                                      |              |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  |              |   |            | \$                                      |              |
| SUBTOTAL =  |              |   |            | \$1260                                  |              |
| Processing fee of \$130.00 for furnishing the English translation later than the 30 months from the earliest claimed priority date (37 CFR 1.492(f)).   |              |   |            | +                                       | \$           |
| TOTAL NATIONAL FEE =  |              |   |            |   |              |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property  |              |   |            | +                                       | \$40         |
| TOTAL FEES ENCLOSED =   |              |   |            | \$1300                                  |              |
|   |              |   |            | Amount to be refunded                   | \$           |
|   |              |   |            | Amount to be charged                    | \$1300       |
| a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed.<br>b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>500417</u> in the amount of \$1300 to cover the above fees. A duplicate copy of this sheet is enclosed.<br>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>500417</u> . A duplicate copy of this sheet is enclosed.  |              |   |            |   |              |
| NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.   |              |   |            |   |              |
| SEND ALL CORRESPONDENCE TO:   |              |   |            |   |              |
| Customer Number 20277   |              |   |            |   |              |
| Telephone: 202.756.8000   |              |   |            |   |              |
| Facsimile: 202.756.8087   |              |   |            |   |              |
| SIGNATURE   |              |   |            |   |              |
| Stephen A. Becker   |              |   |            |   |              |
| NAME  |              |   |            |   |              |
| 26,527  |              |   |            |   |              |
| REGISTRATION NUMBER   |              |   |            |   |              |